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APPLICANT: MATSUSHITA ELECTRIC IND CO LTD;

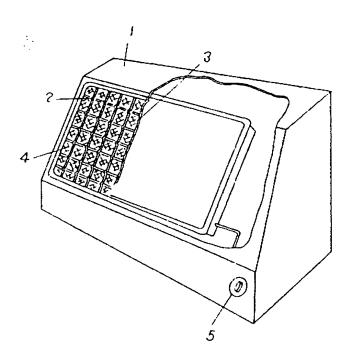
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TITLE

**OXIDIZING CATALYST** 



ABSTRACT: PURPOSE: To obtain the oxidizing catalyst having a large surface area and superior activity for burning hydrocarbon, etc. by producing fine powder of composite oxide CuCO<sub>2</sub>O<sub>4</sub> by the evaporation gas method by which plasma, arc, etc., are irradiated to the oxide mixed stoichiometrically.

> CONSTITUTION: Copper oxide and cobalt oxide are stoichiometrically mixed and introduced put into a container, after reducing the pressure some of inert gas is introduced into it to carry out arc thermal spraying, and CuCo<sub>2</sub>O<sub>4</sub> fine powder having a very large surface area of about 40~60m<sup>2</sup>/g is obtained by the vapor phase method. In the utility example of natural gas to a catalyst burner, the gas is burned catalytically on the oxidizing catalyst where the above-mentioned catalyst powder is supported together with alumina nitrate on the sheet-like alumina fiber and the gas is completely decomposed into steam and carbonic acid gas and the heat generated at this time is utilized for a heating system.

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